

Comparisons of Job Characteristics

Focus Occupation: **Maintenance Workers, Machinery (49-9043)**

Associated Occupation: **Machinists (51-4041)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Machinists (51-4041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	18.0	21.8	>>	Current knowledge level is likely more than sufficient
Mathematics	9.2	14.2	11.7	<	Expanded education and/or training may be required
Production and Processing	6.0	12.7	3.6	<<	Extensive education and/or training may be required
Design	5.2	11.2	9.2	<	Expanded education and/or training may be required
Engineering and Technology	5.7	10.2	10.8	0	Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Machinists (51-4041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Quality Control Analysis	5.9	12.6	10.0	<	A higher skill level may be required
Operation Monitoring	6.6	12.0	11.9	0	Current skill level may be sufficient
Operation and Control	5.4	11.1	10.6	0	Current skill level may be sufficient
Troubleshooting	4.5	10.2	11.0	0	Current skill level may be sufficient
Equipment Maintenance	3.5	9.3	11.9	>	Skill level is likely sufficient
Equipment Selection	3.3	8.6	8.5	0	Current skill level may be sufficient
Repairing	3.4	8.5	11.8	>>	Skill level is likely more than sufficient
Installation	1.7	6.0	4.3	<<	Extensive development of skills in this area may be required

Technology Design	2.6	6.0	3.7	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities	Similarity of Focus Occupation to Associated Occupation: 86
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Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Machinists (51-4041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.3	9.5	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	11.6	9.4	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.1	9.7	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	10.7	8.2	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	10.1	8.4	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	9.3	6.6	<<	Extensive improvement in abilities may be required
Rate Control	3.8	8.6	7.1	<	Some improvement in abilities may be required
Wrist-Finger Speed	3.2	7.3	4.0	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	6.2	4.0	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	6.1	3.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 64
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Focus Occupation: Maintenance Workers, Machinery (49-9043) Associated Occupation: Machinists (51-4041)	
Work Activities	Exclusivity of Activity
Fabricate, assemble, or disassemble manufactured products by hand	11
Install equipment or attachments on machinery or related structures	48
Load or unload material or workpiece into machinery	34
Maintain or repair industrial or related equipment/machinery	39
Move or fit heavy objects	8
Read specifications	23

Understand technical operating, service or repair manuals	6
Use hand or power tools	2
Use knowledge of metric system	39

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Maintenance Workers, Machinery (49-9043)

Associated Occupation: Machinists (51-4041)

Tools and Technologies	Exclusivity
Bandsaws and accessories	26
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power tools	2
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Tool attachments and accessories	12
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.